

**WHAT IS CLAIMED IS:**

1. A service method in a mobile terminal supporting a telephone call service and a plurality of additional services, comprising the steps of:

5 upon receipt of a priority designation request for a first selected one of the additional services from a user, designating the first selected additional service as a high-priority service;

upon receipt of an incoming telephone call during a selected second one of the additional services, determining whether the first selected additional service is  
10 identical to the second selected additional service; and

maintaining the selected additional service when the first selected additional service is identical to the second selected additional service.

2. The service method as claimed in claim 1, further comprising the  
15 step of informing the user that the selected additional service is designated as a high-priority service, after designating the selected additional service as a high-priority service.

3. The service method as claimed in claim 2, wherein the informing  
20 step comprises the step of displaying a priority icon on a display unit of the mobile terminal.

4. The service method as claimed in claim 1, further comprising the step of releasing priority over the designated additional service, upon receipt of a  
25 priority release request from the user during the designated additional service.

5. The service method as claimed in claim 4, further comprising the

step of informing the user of priority release after releasing priority over the designated additional service.

6. The service method as claimed in claim 5, further comprising the  
5 step of removing a priority icon displayed on a display unit of the mobile terminal in the step of informing the user of priority release.

7. A service method in a mobile terminal supporting a telephone call service and a plurality of additional services, comprising the steps of:

10 upon receipt of a priority designation request for a selected one of the additional services from a user, designating the selected additional service as a high-priority service; and

upon receipt of a priority release request from the user during the selected additional service, releasing priority over the designated additional service.

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8. The service method as claimed in claim 7, further comprising the step of informing the user of priority designation and release over the designated additional service, after designating and releasing priority over the additional service, respectively.

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9. The service method as claimed in claim 8, further comprising the step of displaying a priority icon on a display unit of the mobile terminal in the step of informing the user of priority designation.

25 10. The service method as claimed in claim 8, further comprising the step of removing a priority icon displayed on a display unit of the mobile terminal in the step of informing the user of priority release.

11. The service method as claimed in claim 7, wherein the user makes the priority designation request and the priority release request by pressing a priority set/release shortcut key.

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12. The service method as claimed in claim 7, wherein the user makes the priority designation request and the priority release request by pressing a function key.

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13. A service method in a mobile terminal supporting a telephone call service and a plurality of additional services, the mobile terminal capable of designating and releasing priority over a selected one of the additional services, comprising the steps of:

upon receipt of an incoming telephone call during a selected one of the  
15 additional services, determining whether the selected additional service is designated as a high-priority service;

maintaining the selected additional service, when the selected additional service is designated as the high-priority service; and

20 sending an originating mobile terminal an outgoing message indicating that the terminating mobile terminal is busy.

14. The service method as claimed in claim 13, further comprising the step of performing the telephone call service upon receipt of a priority release request from the user before maintaining the selected additional service.